UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/574,531	05/25/2007	Manabu Amikura	33082M313	4116
	7590 06/23/201 BRELL & RUSSELL	EXAMINER		
1130 CONNECTICUT AVENUE, N.W., SUITE 1130			LUND, JEFFRIE ROBERT	
WASHINGTO	WASHINGTON, DC 20036		ART UNIT	PAPER NUMBER
			1716	
			MAIL DATE	DELIVERY MODE
			06/23/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/574,531	AMIKURA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Jeffrie R. Lund	1716			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D/ - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONEI	L. viely filed the mailing date of this communication. O (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>27 M</u> This action is <b>FINAL</b> . 2b) ☑ This     Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4)  Claim(s) 1,3-9,11 and 12 is/are pending in the 4a) Of the above claim(s) is/are withdray 5)  Claim(s) is/are allowed.  6)  Claim(s) 1,3-9,11 and 12 is/are rejected.  7)  Claim(s) is/are objected to.  8)  Claim(s) are subject to restriction and/o  Application Papers  9)  The specification is objected to by the Examine 10)  The drawing(s) filed on 27 May 2007 is/are: a) Applicant may not request that any objection to the	vn from consideration. r election requirement. r. ⊠ accepted or b)□ objected to b	•			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119		, taller of 16 mm , 16 16 <b>2</b>			
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4)  Interview Summary Paper No(s)/Mail Da 5)  Notice of Informal P 6)  Other:	te			

Application/Control Number: 10/574,531 Page 2

Art Unit: 1716

## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 5, 7, 8, and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Fujikawa et al, US Patent 5,595,606.

Fujikawa et al teaches processing apparatus that includes: a processing vessel 28; an evacuation system 48 that evacuates an inside of the processing vessel to form therein a vacuum; a table 30 provided in the processing vessel to dispose thereon the object W; a heater 40 that heats the object disposed on the table; and a showerhead 56 provided on a top part of the processing vessel; the showerhead including: a showerhead body 58, 60, 62 provided with a gas jetting surface facing 62 an inside of the processing vessel; a first diffusion chamber 80 formed in the showerhead body to receive the source gas and diffuse the same; a second diffusion chamber 82 formed in the showerhead body to receive the supporting gas and diffuse the same; a plurality of source-gas jetting orifices 52c formed in the gas jetting surface to be communicated with the first diffusion chamber; and a plurality of first supporting-gas getting orifices 54c formed in the gas jetting surface to be communicated with the second diffusion chamber, wherein each of the first supporting-gas jetting orifices is formed into a ring shape that adjacently surrounds a corresponding one of the source-gas jetting orifices.

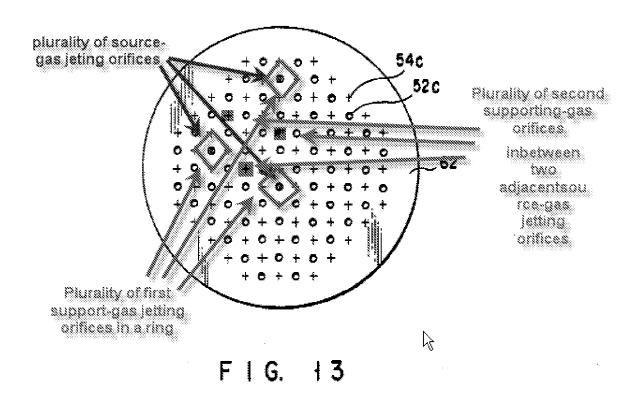
Application/Control Number: 10/574,531

Art Unit: 1716

The source gas contains a high melting point metal in the form of an organic metal material gas.

3. Claims 1, 3-9, 11, and 12 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Fujikawa et al, US Patent 5,595,606.

Fujikawa et al was discussed above and further teaches:



Alternately, it would have been obvious to one of ordinary skill in the art to rearrange the supply-gas jetting orifices 52c and the support-gas jetting orifices 54c into the desired pattern. The motivation for doing so is to supply the desired gas in the desired concentrations to the substrate to deposit the desired layer of material.

Furthermore, it was held that the rearrangement of parts is obvious (see *In re Japikse*)

Art Unit: 1716

86 USPQ 70).

## Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The cited art teaches the technological background of the invention. The cited art contains patents that could be used to reject the claims under 35 USC § 102 or 103. These rejections have not been made because they do not provide any additional or different teachings, and if they were applied, would have resulted in an undue multiplication or references. (See MPEP 707.07(g))

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrie R. Lund whose telephone number is (571) 272-1437. The examiner can normally be reached on Monday-Friday (9:00 am -5:00 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Parviz Hassanzadeh can be reached on (571) 272-1435. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

Application/Control Number: 10/574,531 Page 5

Art Unit: 1716

USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jeffrie R. Lund/ Primary Examiner Art Unit 1716

6/21/2010